

[METHOD AND APPARATUS FOR BATTERY TESTING AND MEASURING]

Abstract

According to this invention a battery testing device is provided. Such device activates a shortening between the battery poles using a predefined electronic circuit (in order to maximize the battery's energy potential) for a time period of 10–50 μsec . In a subsequent time period of $\sim 100\text{--}200 \mu\text{sec}$, the loading is slowly decreased until the voltage returns to an open circuit voltage U_{OC} . During the testing process, the voltage and the battery current are measured. The measurements are stored at the device database, to be later used in an algorithm for checking battery conditions.